

## ABSTRACT

A transducer arrangement and method that generates control signals indicating relative positions of the ends of a hydraulically movable tool of a machine. The generated control signals of the present invention are used by a conventional control circuit of the machine to control the ends of the hydraulically movable tool having elevation receivers as an desired mode of operation or when reception by one of the elevational receivers of a elevational reference, which provides an absolute position of the ends of the tool, is interrupted. The conventional control circuit of the machine uses the generated signal of the transducer arrangement of the present invention to maintain a relative elevation position of one side of the tool to the absolute position of the other side of the tool as desired or until both receiver can reacquire the elevational reference.